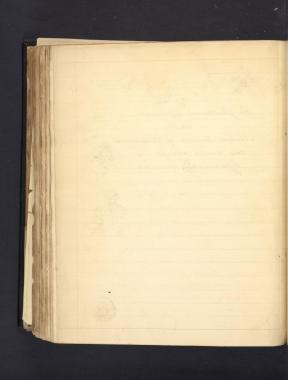
Paped March 6" 1827 W. 2. H. an Inaugural Differtations Trachitis Charles H. Mathews Lennyylvanias. -

Cope Mant 6" 1827

The Gentlemen; Lecturers in the Medical Institute of Philadelphia this humble attempt is affectionately inscribed



from among the numerous appetialing given this disease, I have exected the term Frachilly, because it very clearly indicates the mature of the complaint, and at the same time gives an unique of the the medical nemerolature.

This is considered as a assesse of modern origin, and the created planing originally noticed and associties it is due to Martin Prije an obscure practical in theme, by whom it was discovered in 1940, the attention of Doctor Home propper of Materia Medical at Edinburgh was after a ward directed to it; by whom a work upon the subject was published.

Tracketty is for the most part confined to an early period of life, occurring between the first and fifth years, but instances are recorded where adult subjects fell willing to the ranges of this disadpet

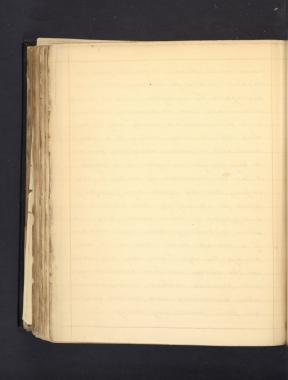


disease, and infanty within the month suffered from this formidable malady; these knows must be considered as anomalous derations from the ordinary course and character of the disease.

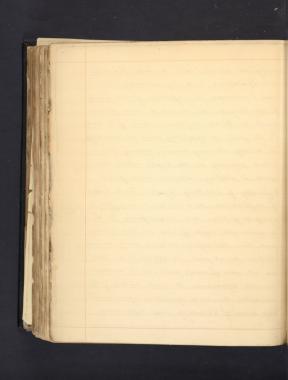
Ity occurrence is at all seasons and in all situations, but I believe more prequently in spring and autumn, than the more uniform seasons of summer and winter; and although we not uncommonly meet with it in the most healthy locations, almost all authors concer in the opinion, that places influencea by proximity to lakes, rivery, marshed the sea to may predispose the system to this disease. Broup has been considered to be con-- cagious by Physicians of high respect. · ability; notwithstanding however they doctine has been supported by such high authority, and so much confidence



placed in the opinion; I cannot find the slightest reasons for beliving that it is propagated by contagion; that it prevails epidemically and endemically sometimes with circumscribed limits may be true; but this is owing entirely to a damp, moist, cold or austice almosphere, and not to any specific contagion as is alleged. It has been remarked by united on this subject, that this difease more prequently selecty for its suffectly those children who are properties of robust constitutions and active dispositions; than those who are of a delicate habit: that this is not always the cafe I am very confident; for the disease has been known to rage with peculiar violence, among children whose dispositions were neither active, nor their constitutions strong.



Notogical writers have arrided trackity, milo Spasmodic and Inflammatery: the first I consider an affection of the muscles of the largue; the second a state of five with a local inflammation of the tracker. In the first, the symptoms come on suadenly in a very alarming manner, making their attack generally in the night whilst the child is sleeping; attended with great difficulty of breathing together with a surse of suffocation, and without any petrile symptomy: there are interniferous for a considerable length of time in this species, and then the disease returns with as much violence as at first; it appears to me that in all cases of croup where it is sudden in its appearance, it must partake of this character, the early symptoms agree with this view of Pathology, and diffections



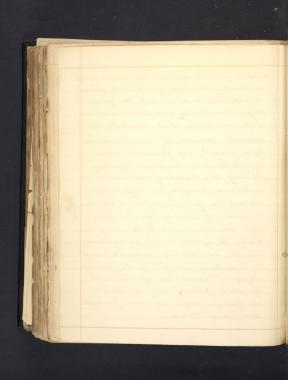
confirm its correctness; and what still further argues much in favour of the opinion is, the affection being so readily removed by antispasmodic remedies, if the difease depended at all times on inflammation, it would be impossible for those meaning so promptly and so completely to afford relief. In the second or inflammatory species at first the symptoms are slight; resembling those attending a common calant; in some instances the aysproca comes on so slowly that the patient complains of some difficulty of breathing, for sureal days before he is seriously it; if a child he is drowsy, mactive, and petful: at lougth there is a houseness, attended with a dry rough, and difficulty of breathing, as soon as the difficulty of



breathing is considerable, the pulse become prequent, strong and hard; the voice has a peculiar ringing sound, which has been compared to the crowing of a cocke, the backing of a made dog, or the noise ifining from a hazew tide, the eyes are dull and the face flushed; as the defease advances the symptoms commerce ted mucase in violence, the state of breathing becomes such," that the shoulding are raised at each inspiration, the abdominal muscles act strongly, and at the same time there is a rident alternate elevation and depression of the ribs and scapula". It perhaps may not be improper for me here to remarks that this stage of the complaint has been called Bouch Hives; from the circumstance of the abdominal muscles



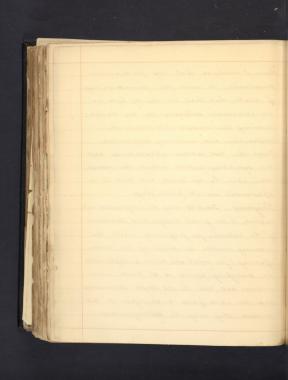
being so molently affected the system becomes exhausted, the pulse small and quick, the extremities cold, and the final stage soon arrives, accompanied sometimes with consulgious, which terminate the migerable existence of the little sufferer, by a painful and premature death. Such is the fatal conclusion prequently attending this disease, if not countriacted by the most powerful remedee; unhappily the subjects of this complaint are for the most part los young to describe their sensationy: and it is owing either to ignorance or an injudicions reliance on the "vis medicalie natura" that children curable in the forming stages of croup, are left neglected by their parents and muises, until it becomes confirmed and perhaps irremediable; thuy,



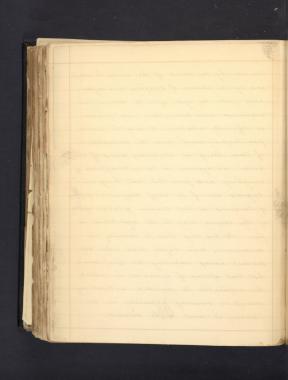
"for want of timely care, Milliony have died of medicable wounds! Oppearances on Diffection on laying opin the tracked of those who die of this disease a preternatural membrane is sometimes found lining the whole in. turnal surface of the upper part of the tracken; formed either by coagulable lymph, or inspifated muchy. This membrane is supposed to effect ily baneful purpose, simply by felling up the cavity of the tracker; and thus obstructing the passage of air to the lungs. But that the windpipe can receive a tube much smaller than itself and yet be capable of admitting more air, than will pass through the rima glot. stidig; must be evident to any one who will closely inspect a preparation of it. From this circumstance alone



then, I conclude that this preternatural membrane, is never the immediate cause of death; but that it merely acts as an extraneous substance in the tracker; throwing the muscles into spasmodic contraction, and inducing suffocation. From the post mortew appearances and the symptomy which attend the disease, there can be no doubt, but that it is spasmodic in its final stage. Diagnosis - Trackitis may be confounded with calanh to the great danger and detriment of the patient; for frequently whilst the unwary mother is newsing her tender offspring (for what she deems a slight cold) the distreping period is at hand, when medical aid can be no longer serviceable; and the child falls a sacrifice to this disease they may be distinguished



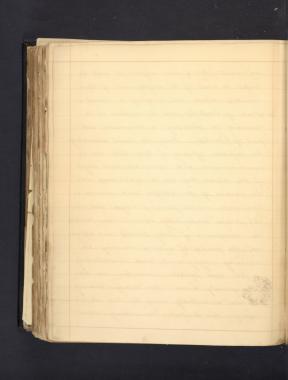
however by the sound of the soice in croup, and by the absence of sneezing, and defluxiong from the eyes, after the disease has continued some time, there can remain no difficulty whatever. It may be known from hooping cough, from the circumstance of these being no stridulous sound of the voice, no aysproca in the intermissions of coughing, and from this last being cow-- tagious, one of the chief diagnostic symptoms of Trachitis is, that however great the affeline of the larger may be, the deglutition is pee. It has long been a maxim in medicine, even before there were any distinct ideas respecting this complaint, that that species of cymanche in which the respiration is impeded, without any reducts or swelling appearing in the fances, is most to be dieaded.



Fravis et illa species angina, (Horsting Among) cum quetturis interni musculi sie inflam= manter, ut neque in facility neque in cervice, quidpiam adjaceat, unde belso menito pestifeny, galeno morbus extrense peracutus, Hippocrate sero lethalis dicitu" broup may be distinguished from acute asthma because in the former there is seldom any remission, whereas in the latter it is one of the most striking phenomena of the disease. Prognoses. As appearances are often fallacious the physician should be cautious in pronouncing his opinion, which may involve his future reputation; the most farourable conclusion may however generally be infener, where the febrile and other symptoms are relieved by the remedies to be here. - after mentioned. Method of Cure. In entering upon this



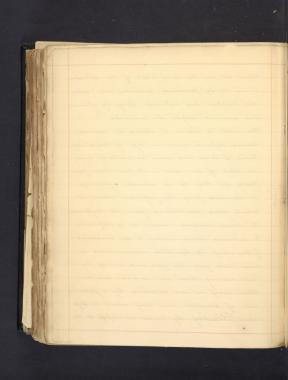
important part of our subject, it will be proper to treat of the employment of these remedies which are necessary to remove an attack of Trachilly: and the method to be pursued in obviating a recurrence, and first of Emelics . - Every one must acknowledge the superior efficacy of these, both in the communicament, and more advanced stages of this disease; they act as expecterants, clear the trachea of the phicom and mucus so troublesome in the forming stages; and when the lungs "imperfectly execute their functions, in consequence of being loaded and opports ed," the powers of copious remiting an relieving engagement, and re-establishing a fice and equable circulation, are ade vantageously known. The tartaized animony is most undoubtedly among the best we can use for this purpose; "the certainty, extent



and pumanency of its operation; together with ils expectorant properties, sufficiently recommend it in this disease: where the emelie tarter does not act so promptly, as is desired the addition of Specaenanha will be found useful. warm Ballo ... Experience has proved this to be an invaluable remedy in croup. The advantages derived from it in promoting the operation of Emetics, are obvious .-The patient should be kept in the bath ten or fifteen minutes . The remedies already mentioned have been known to effect a cure themselvey, and almost in exactably to afford relief and moderate the violence of the symptoms. -Not the least of the remedies, resorted to in this affection, is Blood letting - all authors concur in the propriety of this in Trachilis, and some depend entirely



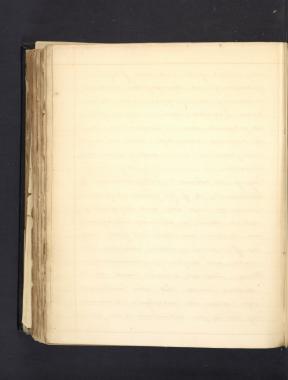
upon it in the early part of the disease: it is to be presumed however, that after the tracked has relieved itself by effusions this ran no longer be serviceable. The entent or which it should be carried. should depend upon the age of the patient, habit of body, and more particularly upon the state of the pulse . - It has been pro-- posed in this as in similar affections, to let blood from the jugular vein; to which some practitioners give the prepuence. In small children where it is difficult to procure blood, owing to the smallness of the veing; it has been recommended to draw blood from the feet and hands, by first placing them in warm water-Where relief is not obtained by a judicious use of all these, we may resort to John =ical & Tleeding, by weeker or cupy, to the



use a back of the neck, and if after the application of their, the symptoms continue or alarming, as to require immediate at tention. Inofesion Chapman directs bleeding and astignium animi. Typicope being induced the impeded respiration, houseness, oright and force, are most commonly considerably allevialed.

Plurging . At subservient to the indication of depleting, this is of the greatest importance. Calmet in large dray will be present of infinite service, in procuring evacuations from the alimentary canal, and thereby "carrying of linguing symptomy, obviousing a velapse, and confirming convaluence".

Philosof. There are without doubt an excellent remedy; but when empidened alme, under the antiphlogistic treatment, they are so far subordinate to the fore.



egoing, that when a sudden reduction of excitement is required, but little de--pendance can be placed in them. as it is probable their utility may be very considerable, in consequence of the depletion they aford in the immedriate vicinity of the part where ex--citement is concentrated they should be applied directly to the tracker ... Expectorants .. It is in eradicating the relicks of croup that these are of signal utility. - Where cough, hoarseness, difficult expectoration, and lightness of the chest remain, the antimornaly have been re--commended but in my estimation, our chief reliance is to be placed on the Polygala Tinega and the Hive Tyrup of Professor love; adapted to the removal of the sequela of this complaint, there are



me medicines whatever, more deserving the encominung bestowed on them; their superior efficacy in removing the house-ness and cough, in retiring the eightenst of the chest, and in promoting experination must be acknowledged.

Inhabations. - Breathing the rapour of warm water impropriated with ringar or other, proved a grown auxiliary in afsisting expectionation, and in lipming the richerce of the sparing. "In whatever manner it acts, whether by mixing with and allusting the thick matter, which closes the bronchial refells, or as a stimular acting on these parts and increasing the secretain from them, it is found to trope the cough, to promote appellocation and relieve appearation and relieve appearation and

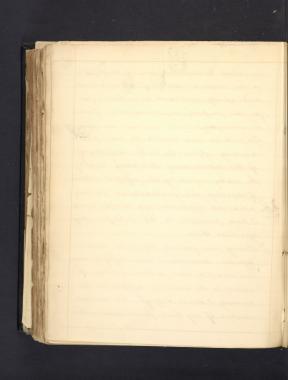
There is perhaps no other form of bynanche,



in which inhalations are as beneficial, as in creeks a raisely of subtaured besides those absending mentioned, have been used for this purpose, an enumeration of which is unnecessary.

The practice here detailed is more passicularly applicable to the early stages of this disease, many observations might be made, concerning the different methods of treating the complaint, in its same advanced condition, did not the limits I have prescribed to this imperfect upon preclude them.

Staring now pinispea my sport and affective observations, I that briefly concludes but were I to close without a within of aspect to the illustrating partifing in this university, I should suppose the assumed emotion of my heart for the innumerable



awantages I have decined from your public lectury and private communications, point me to tender my senere acknowledgements.
Every student who has had the good fortune to wish this college, must be convinced of her superior method of imparting medical knowledge and of the indefaligable experience of her Door feffers in giving instruction.

